

ROBOTICIST

Illinois Wesleyan Univ., Bloomington, IL

Fall 2020 and Spring 2021

- Designing and building a robot modeled after the Boston Dynamics dog, controlled via a PlayStation controller. All CAD and programming work done independently by my team.
- This work will be presented at a research conference in April.

EDUCATION

ILLINOIS WESLEYAN UNIVERSITY, Bloomington, IL

Bachelor of Science in Physics, Minor in Data Science, Fall 2021

- GPA: 3.46/4.0
- Courses: Physics I/II, Modern Physics, Calculus sequence, Mathematical Methods in Physics, Scientific Imaging, Computer Science I, Quantum Mechanics, Electricity & Magnetism, Experimental Physics, Momentum of Photons, Discrete Mathematics, Statistics for Economics, Applied Data Analysis, Deep Learning, How Things Work, Entrepreneurship, Nanoelectronics
- Member of: IEEE, APS, SPIE, SPS and data science club

ADDED COMPETENCIES

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| • Python | • Docker & Kubernetes |
| • PyTorch, TensorFlow | • C++ (beginner) |
| • Igor Pro | • GitLab, Prometheus |
| • SQL (beginner) | • Amplification, op-amps, Quanta measurement |
| • MLOps & DevSecOps | • AutoDesk <i>AutoCAD</i> , AutoDesk <i>Fusion 360</i> |
| • Julia (for Scientific Machine Learning) | • NI LabVIEW programming (beginner) |
| • Mathematica | |

ADDITIONAL INFORMATION

- Experience with rigorous machine learning frameworks for scientific applications
- Trained to always keep an eye on emerging opportunities.
- Trained to check, carefully, key claims that work/innovation depends upon.
- Trained to ground conversations in reliable principles (by returning to what's fundamental).
- Trained to gain insight by considering extreme limiting cases.
- Trained to write & document before, during, and after work.
- Proficient in English, natively speak Hindi & Marathi, limited working proficiency in Spanish.
- I am a soccer and Formula 1 fan; but I love watching all sports.
- U.S. Citizen

REFERENCES

- Ames Professor of Physics, Gabriel C. Spalding <gspaldin@iwu.edu>
- Associate Professor of Psychology & Data Science, Brad Sheese <bsheese@iwu.edu>
- Professor of Physics, Bruno deHarak <bdeharak@iwu.edu>
- Professor of Physics, Thushara Perera <tperera@iwu.edu>